

NEB-232.ST25.txt
SEQUENCE LISTING

<110> Lunnen, Keith
Davis, Theodore
Wilson, Geoffrey

<120> Method for Cloning and Expression of SbfI Restriction
Endonuclease and SbfI Methylase in *E. coli*

<130> NEB-232

<140> 10/668,047

<141> 2003-09-22

<160> 57

<170> PatentIn version 3.2

<210> 1

<211> 1461

<212> DNA

<213> streptomyces species Bf-61

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Lys Leu Asp Pro Thr Thr Gln Ala Val Leu Gly Gln Phe Phe Thr Pro
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atg aag gcc gcc acg ctg atg gct tca atg ctt cgg gtc gat gat ctc 144
Met Lys Ala Ala Thr Leu Met Ala Ser Met Leu Arg Val Asp Asp Leu
35 40 45

cgc gga acg gtg cgg gtg ctc gac cca gga gct ggt gtc ggg tct ctg 192
Arg Gly Thr Val Arg Val Leu Asp Pro Gly Ala Gly Val Gly Ser Leu
50 55 60

acc gct gcc ctc gtc gat cgg ctg cat act gaa cgc ccc gac gtt gcg 240
Thr Ala Ala Leu Val Asp Arg Leu His Thr Glu Arg Pro Asp Val Ala
65 70 75 80

gtc cac gta gtt gcc gtg gaa acc gac ccc ttt gtc gtg cct tac ctg 288
Val His Val Val Ala Val Glu Thr Asp Pro Phe Val Val Pro Tyr Leu
85 90 95

cgc gcc acc ctg gag gaa tgt cgg aac gct tac ggc atc tcc tac gac 336
Arg Ala Thr Leu Glu Glu Cys Arg Asn Ala Tyr Gly Ile Ser Tyr Asp
100 105 110

cta gtc gag ggc gac tat ttg ctt aac caa ggg gcc aag ctg gat ggc 384
Leu Val Glu Gly Asp Tyr Leu Leu Asn Gln Gly Ala Lys Leu Asp Gly
115 120 125

ccg ttc gat ctt gta att gct aat cct ccc tac gga aag ctt gct tca 432
Pro Phe Asp Leu Val Ile Ala Asn Pro Pro Tyr Gly Lys Leu Ala Ser
Page 1

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 385 390 395 400
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 405 410 415
 ctt tgg ttg aac tcg act gtg ttg gat cag tat ttc cga gcc ttt tcc 1296
 Leu Trp Leu Asn Ser Thr Val Leu Asp Gln Tyr Phe Arg Ala Phe Ser
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 35 40 45
 Arg Gly Thr Val Arg Val Leu Asp Pro Gly Ala Gly Val Gly Ser Leu
 50 55 60
 Thr Ala Ala Leu Val Asp Arg Leu His Thr Glu Arg Pro Asp Val Ala
 65 70 75 80
 Val His Val Val Ala Val Glu Thr Asp Pro Phe Val Val Pro Tyr Leu
 85 90 95
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 100 105 110

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 165 170 175
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 180 185 190
 Tyr Tyr Arg Gln Phe Arg His Trp Leu Met Thr Ala Val Ser Leu Asp
 195 200 205
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 210 215 220
 Val Lys Gln Glu Asn Val Ile Val Ala Phe Ser Val Arg Pro Gln Ser
 225 230 235 240
 Ser Ser Val Val Leu Ser Arg Ser Val Ala His Gly Glu Glu Ser Ile
 245 250 255
 Ala Ser Ser Val Pro Phe Ser Ala Leu Val His Asp Glu Asp Asp Asp
 260 265 270
 Lys Ile Val His Phe Ala Glu Ser Ala Ser Val Pro Ser Ala Ala Arg
 275 280 285
 Phe Thr Leu Ala Asp Leu Gly Ile Gly Val Ser Thr Gly Lys Val Val
 290 295 300
 Asp Phe Arg Asn Arg Gln Tyr Leu Thr Asp Asn Leu Asp Ala Ser Gly
 305 310 315 320
 Val Val Pro Met Val Tyr Gln Ser Asn Ile Arg Ser Gly Lys Ile Asp
 325 330 335
 Trp Pro Gln Val Gly Ala Arg Lys Pro Gln Gly Phe Val Ala Val Glu
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Lys Arg Gln Thr Ala Lys Glu Asp Arg Arg Arg Val Ile Ala Ala Val
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Trp Asp Gly Ala Ser Arg Val Ala Leu Asp Asn Lys Thr Asn Tyr Leu
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Cys Arg Glu Asp Leu Ile Leu Leu Ala Lys Val Val Pro Asp Gly Leu
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Val Arg Ser Ala Val Thr Leu Leu Ala Leu Ala Gly Leu Lys Pro Gly
35 40 45

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50 55 60

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65 70 75 80

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 35 40 45

Asp Arg Trp Val Asp Ser Thr Thr Pro Arg Leu Gly Val Gln Lys Ile
 50 55 60

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 65 70 75 80

Arg Glu Asp Phe Arg Lys Lys Thr Leu Arg Gln Trp Val Asp Asn Gly
 85 90 95

Phe Ala Val Leu Asn Ala Asp Asn Leu Asn Ile Ala Thr Asn Ser Gln
 100 105 110

Leu Asn Glu Tyr Cys Leu Ser Asp Glu Ala Leu Gln Ala Leu Arg Ala
 115 120 125

Tyr Gly Thr Glu Gly Phe Glu Glu Ser Leu Val Val Phe Leu Asp Glu
 130 135 140

Ala Ser Lys Ala Val Lys Ala Arg Ala Glu Ala Leu Gln Ala Ala Met
 145 150 155 160

Ile Ser Val Asp Leu Pro Gly Gly Glu Glu Phe Leu Leu Ser Pro Ala
 165 170 175

Gly Gln Asn Pro Leu Leu Lys Lys Met Val Glu Glu Phe Val Pro Arg
 180 185 190

Phe Ala Pro Arg Ser Thr Val Leu Tyr Leu Gly Asp Thr Arg Gly Lys
 195 200 205

His Ser Leu Phe Glu Arg Glu Ile Phe Glu Glu Val Leu Gly Leu Thr
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220

210

215

Phe Asp Pro His Gly Arg Met Pro Asp Leu Ile Leu His Asp Glu Val
225 230 235 240

Arg Gly Trp Leu Phe Leu Met Glu Ala Val Lys Ser Lys Gly Pro Phe
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Asp Glu Glu Arg His Arg Ser Leu Gln Glu Leu Phe Val Thr Pro Ser
260 265 270

Ala Gly Leu Ile Phe Val Asn Cys Phe Glu Asn Arg Glu Ser Met Arg
275 280 285

Gln Trp Leu Pro Glu Leu Ala Trp Glu Thr Glu Ala Trp Val Ala Glu
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NEB-232.ST25.txt
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 <223> n = G,A,C or T

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 <222> (6)..(6)
 <223> y = c or t

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 <222> (9)..(9)
 <223> r = a or g

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NEB-232.ST25.txt

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Val

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NEB-232.ST25.txt

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24